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DSSD CENSUS 2000 PROCEDURES AND OPERATIONS MEMORANDUM SERIES R-25

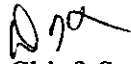
MEMORANDUM FOR Maureen Lynch

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Subject:

Accuracy and Coverage Evaluation: Small Block Cluster Subsampling
Approval and Summary of Results

I. INTRODUCTION

The Sample Design Team approves the results of the Accuracy and Coverage Evaluation (A.C.E.) small block cluster subsampling operation for release to persons who need this information to carry out A.C.E. operations. The information reflecting the small block cluster subsampling operation is included on the Sample Design File. Operations that require these results can now begin.

The small block cluster subsampling operation required the selection of a subsample of the small clusters that were in sample after the A.C.E. cluster reduction. The small block clusters were not part of the A.C.E. cluster reduction because the 'keyed and valid' independent listing housing unit counts were not available. It would have been preferable to have these 'keyed and valid' counts for the A.C.E. cluster reduction as well, but this was not operationally possible. A brief overview of the subsampling design is included in section II of this memorandum. Section III of this memorandum and its attachments contain summary statistics of the operation.

Any question regarding small block cluster subsampling should be directed to Matt Salganik (301-457-3636) or Debbie Fenstermaker (301-457-4195).

II. DESIGN OVERVIEW

Before small block cluster subsampling the A.C.E. sample contained 5,000 small block clusters in the United States and 96 small clusters in Puerto Rico. Small clusters were expected to have between zero and two housing units based on an earlier version of the census address list. The A.C.E. independent listing was done for all these clusters. However, conducting interviewing and follow-up operations in clusters of this size is not as cost-effective as in larger clusters. Therefore, to allocate A.C.E. resources more efficiently, we will include only a subsample of these small clusters in the A.C.E. interviewing sample. The same subsampling procedure is used for clusters in the United States and Puerto Rico.

This subsampling operation reduces the sample of small block clusters while at the same time attempting to balance among three goals. First, we would like to prevent any small clusters from having weights that are extremely high compared to other clusters in the sample. Second, we would like to have lower weights on clusters where the number of housing units is different than we expected. These first two goals attempt to reduce the contribution of small clusters to the variance of the dual system estimates. The third goal is to ensure that the Field Division can efficiently manage the resulting workloads.

To achieve these goals we used differential subsampling where the subsampling rates are partially based on the number of 'keyed and valid' housing units from the A.C.E. independent listing (including units with status 'future new construction') and the number of housing units on the census address list as of January 2000. All List/Enumerate, American Indian County¹, and American Indian Reservation clusters were retained to avoid increasing their weights. Additionally, small clusters with 10 or more housing units on either the census address list or the independent listing were retained as well.

The sample design calls for eleven strata to be formed: nine for small clusters, one for medium clusters, and one for large clusters. For more information on the small block cluster subsampling strata see Table 1 in Attachment A. It turns out that many of the strata have the same sampling rate and thus could have been collapsed. However, when we were developing the computer specifications, the sampling design had not been determined. Thus, to accommodate several potential design plans, we specified nine strata for small clusters to give us design flexibility. For more information on the small block cluster subsampling operation in general, see reference 1.

¹American Indian Country includes Tribal Jurisdiction Statistical Areas (TJSAs), Tribal Designated Statistical Areas (TDSAs), Alaska Native Village Statistical Areas (ANVSAs), and American Indian Reservations and associated trustlands. For small block cluster subsampling, the term American Indian Country will exclude American Indian Reservation and associated trustlands.

III. RESULTS

A total of 1538 small block clusters were selected from the 5,000 small clusters in the United States and 36 small block clusters were selected from the 96 small clusters in Puerto Rico. To examine the number of small block clusters and 'keyed and valid' independent list housing units² before and after the subsampling by state, see Table 2 in Attachment B³.

At this point we also know that the A.C.E. interview sample will contain 11,303 clusters in the United States and 499 clusters in Puerto Rico. This includes all clusters retained in the A.C.E. cluster reduction and small block cluster subsampling. Table 3 in Attachment C contains a distribution of clusters by state. Table 3 also contains the distribution of independent list housing units by state. These 900,389 housing units will go through housing unit matching. However, the actual number of independent list housing units in the A.C.E. interview sample will not be known until after large block cluster subsampling.

Because the small block cluster subsampling design called for differential subsampling, the distribution of small clusters in the sample is different than the distribution of small clusters before the subsampling. The sample contains a higher percentage of American Indian Reservation, American Indian Country, and List/Enumerate clusters. It also contains a higher percentage of small clusters where the housing unit count is greater than 10. Tables 4 and 5 in Attachment D show the distribution of small block clusters by subsampling stratum before and after small block cluster subsampling.

As previously stated one of the goals of this operation was to reduce weight variation and prevent any clusters from having extremely large weights. Table 6 in Attachment E shows the sampling rates for the different subsampling strata for the states. For example, in Alabama stratum 01, a sampling rate of 1-in-10 was used. These sampling rates were set so that the expected number of clusters retained from each subsampling stratum was an integer greater than zero. Another restriction on the sampling rates is that they could not result in cluster weights greater than 1,200. Additional documentation is forthcoming on the exact process of setting the sampling rates. In all cases the sampling rates for strata four through nine were 1-in-1.

Table 7 in Attachment F shows the sampling weights of small block clusters by subsampling stratum in each state. The sampling weight is the inverse of the probability of selection for a cluster through all stages of sampling. Within each state, clusters in strata four through nine will all have the same weight and therefore are presented together.

²This independent list housing unit count includes unit designated as 'future new construction.'

³The housing unit counts discussed in this memorandum may differ from the ones published after the A.C.E. cluster reduction (see reference 2). This is because the housing unit counts at the time of reduction are preliminary independent list housing unit counts and the counts at the time of small block cluster subsampling are 'keyed and valid' independent list housing unit counts.

Table 8 in Attachment G provides a breakdown of the clusters and independent list housing units by Type of Enumeration Area group after small block cluster subsampling. Table 9 in Attachment H provides cluster distribution after small block cluster subsampling by A.C.E. regional office (ACERO).

IV. OUTPUT FILES

An additional output of the small block cluster subsampling is information for the Field Division (FLD) to assist in the planning of housing unit follow-up. Twelve Quattro spreadsheets, one for each ACERO, will be provided on diskettes to Neala Stevens of the FLD. These files are updates of the ones provided after the A.C.E. cluster reduction and will contain all 29,695 clusters in sample before the A.C.E. cluster reduction. The new files will reflect small block cluster subsampling and will also incorporate 'keyed and valid' independent list housing unit counts instead of preliminary counts. This housing unit count change may result in some inconsistencies between the two files. Puerto Rico will be included in the Boston ACERO spreadsheet. These spreadsheets are named ASB_XX.WB3, where XX is the ACERO number. Each spreadsheet will contain the following variables in order for each cluster:

- ACERO Abbreviation
- FIPS State Code
- FIPS County Code
- Local Census Office Code
- A.C.E. Cluster Number with Check Digit
- Absolute Difference between the 'Keyed and Valid' Independent Listing Housing Unit Count and the January DMAF Count. (If a cluster is no longer in sample, the count is set to blank on the spreadsheets.)
- A.C.E. Status
 - 0 = Cluster is no longer in sample
 - 1 = Cluster was retained in sample
- Small Cluster Indicator
 - 0 = Not a small cluster
 - 1 = Small cluster

To determine the small clusters that were retained, one must use a combination of the A.C.E. Status variable and the Small Cluster Indicator variable. Each spreadsheet is sorted by state, county, and A.C.E. cluster number with check digit. **The information contained in these spreadsheets is confidential and protected by Title 13 of the U.S. Code. Access to this information is administratively restricted to authorized A.C.E. staff.**

V. REFERENCES

1. DSSD Census 2000 Procedures and Operations Memorandum Series R-24,
“Accuracy and Coverage Evaluation Survey: Small Block Cluster Subsampling,”
February 1, 2000
 2. DSSD Census 2000 Procedures and Operations Memorandum Series R-23,
“Accuracy and Coverage Evaluation Survey: Approval and Summary of Results
of the Reduction Sample,” January 21, 2000
- cc: DSSD Census 2000 Procedures and Operations Memorandum Series Distribution List
A.C.E. Implementation Team Leaders Distribution List
Statistical Design Team Leaders Distribution List
Sample Design Team

Table 1. Small Block Cluster Subsampling Stratum

Small Block Cluster Subsampling Stratum	Original Cluster Size	Larger of DMAF/IL ¹ HU count	American Indian Country ²	List/ Enumerate Status
01	Small	0-2	Non AIC/AIR	Non-L/E
02	Small	3-5	Non AIC/AIR	Non-L/E
03	Small	6-9	Non AIC/AIR	Non-L/E
04	Small	10+	Non AIC/AIR	All values
05	Small	0-2	Non AIC/AIR	L/E
06	Small	3-9	Non AIC/AIR	L/E
07	Small	0-9	AIR	All values
08	Small	0-2	AIC not AIR	All values
09	Small	3-9	AIC not AIR	All values
10	Medium	All values	All values	All values
11	Large	All values	All values	All values

1) DMAF = Decennial master address file, IL = Independent list

2) AIR = American Indian Reservation, AIC = American Indian Country and not American Indian Reservation (Includes -- Tribal Jurisdiction Statistical Areas (TJSAs), Tribal Designated Statistical Areas (TDSAs), and Alaska Native Village Statistical Areas (ANVSAs))

Table 2. Distribution of Small Block Clusters Before and After Small Block Cluster Subsampling

FIPS Code	State	BEFORE SUBSAMPLING		AFTER SUBSAMPLING	
		Clusters	IL HUs ¹	Clusters	IL HUs
01	Alabama	116	103	14	54
02	Alaska	20	33	7	24
04	Arizona	86	146	69	140
05	Arkansas	90	60	13	16
06	California	184	414	93	401
08	Colorado	83	36	24	19
09	Connecticut	20	42	5	37
10	Delaware	20	22	3	7
11	District of Columbia	20	0	2	0
12	Florida	145	284	43	265
13	Georgia	154	278	27	211
15	Hawaii	20	14	6	11
16	Idaho	54	12	32	12
17	Illinois	185	139	25	51
18	Indiana	140	197	24	125
19	Iowa	147	279	21	161
20	Kansas	193	149	24	33
21	Kentucky	96	165	14	92
22	Louisiana	65	10	40	7
23	Maine	38	51	24	38
24	Maryland	36	35	6	22
25	Massachusetts	38	117	10	105
26	Michigan	122	110	19	64
27	Minnesota	141	143	28	79
28	Mississippi	81	138	20	84
29	Missouri	162	384	24	269
30	Montana	67	20	41	15
31	Nebraska	142	93	31	25
32	Nevada	46	2	38	1
33	New Hampshire	25	62	11	50
34	New Jersey	39	12	8	4
35	New Mexico	108	38	76	29
36	New York	143	658	34	582
37	North Carolina	143	393	28	300
38	North Dakota	121	136	34	35
39	Ohio	132	243	22	146
40	Oklahoma	142	112	104	96
41	Oregon	86	7	52	7
42	Pennsylvania	180	305	28	203
44	Rhode Island	20	14	4	6
45	South Carolina	95	166	15	113
46	South Dakota	106	71	40	22
47	Tennessee	133	461	24	381
48	Texas	349	769	149	714
49	Utah	38	113	29	112
50	Vermont	21	29	10	16
51	Virginia	98	104	15	62
53	Washington	73	231	33	225
54	West Virginia	46	48	10	24
55	Wisconsin	119	235	24	164
56	Wyoming	72	13	61	13
	United States	5,000	7,696	1,538	5,672
72	Puerto Rico	96	164	36	155
		=====	=====	=====	=====
	GRAND TOTAL	5,096	7,860	1,574	5,827

1) The independent listing (IL) housing unit count is for 'keyed and valid' units and includes units designated 'future new construction'.

Table 3. A.C.E. Sample Clusters After Small Block Cluster Subsampling

FIPS Code	State	Clusters	IL HUs ¹
01	Alabama	161	11,184
02	Alaska	70	4,540
04	Arizona	322	23,233
05	Arkansas	108	5,659
06	California	1,101	97,642
08	Colorado	166	12,041
09	Connecticut	111	8,454
10	Delaware	66	4,558
11	District of Columbia	58	6,654
12	Florida	533	63,247
13	Georgia	276	25,501
15	Hawaii	121	23,463
16	Idaho	107	4,510
17	Illinois	403	27,619
18	Indiana	211	11,697
19	Iowa	122	6,204
20	Kansas	117	5,745
21	Kentucky	158	12,042
22	Louisiana	199	9,913
23	Maine	94	3,506
24	Maryland	165	20,351
25	Massachusetts	210	15,043
26	Michigan	343	20,405
27	Minnesota	203	10,850
28	Mississippi	124	5,636
29	Missouri	188	15,056
30	Montana	139	5,165
31	Nebraska	100	3,118
32	Nevada	101	10,072
33	New Hampshire	76	4,243
34	New Jersey	258	19,847
35	New Mexico	212	6,362
36	New York	627	71,547
37	North Carolina	276	24,486
38	North Dakota	121	3,837
39	Ohio	379	29,683
40	Oklahoma	232	8,062
41	Oregon	169	9,527
42	Pennsylvania	428	24,052
44	Rhode Island	69	4,040
45	South Carolina	142	12,747
46	South Dakota	136	4,395
47	Tennessee	207	14,817
48	Texas	793	61,228
49	Utah	107	6,890
50	Vermont	75	4,444
51	Virginia	258	24,377
53	Washington	232	16,959
54	West Virginia	79	5,953
55	Wisconsin	211	10,672
56	Wyoming	139	3,066
	United States	11,303	844,342
72	Puerto Rico	499	56,047
		=====	=====
	GRAND TOTAL	11,802	900,389

1) The independent listing (IL) housing unit count is for 'keyed and valid' units and includes units designated 'future new construction'. The housing unit counts presented in "DSSD Census 2000 Procedures and Operations Memorandum Series R-23" were only preliminary and thus may differ from the counts presented here. The final number housing units in the A.C.E. interview sample will be determined after reducing the number of housing units within large clusters.

Table 4. Distribution of Small Clusters Before Small Block Cluster Subsampling

Small Block Cluster Subsampling Stratum		Number of Clusters	Cluster Distribution	IL Housing Units ²	Housing Unit Distribution
Number	Description ¹				
01	0-2 HUs	4,044	79.4%	1,571	20.0%
02	3-5 HUs	292	5.7%	897	11.4%
03	6-9 HUs	81	1.6%	492	6.3%
04	10+ HUs	117	2.3%	4,652	59.2%
05	0-2 HUs and List/Enumerate	290	5.7%	59	0.8%
06	3-9 HUs and List/Enumerate	16	0.3%	76	1.0%
07	0-9 HUs and AIR	128	2.5%	43	0.5%
08	0-2 HUs and AIC	121	2.4%	40	0.5%
09	3-9 HUs and AIC	7	0.1%	30	0.4%
TOTAL³		5,096		7,860	

1) For a more complete description of the strata see Table 1 in Attachment A.

2) The independent listing (IL) housing unit count is for 'keyed and valid' units and includes units designated 'future new construction'.

3) This table included clusters in the 50 states, the District of Columbia, and Puerto Rico.

Table 5. Distribution of Small Clusters After Small Block Cluster Subsampling

Small Block Cluster Subsampling Stratum		Number of Clusters	Cluster Distribution	IL Housing Units ²	Housing Unit Distribution
Number	Description ¹				
01	0-2 HUs	718	45.6%	219	3.8%
02	3-5 HUs	121	7.7%	374	6.4%
03	6-9 HUs	56	3.6%	334	5.7%
04	10+ HUs	117	7.4%	4,652	79.8%
05	0-2 HUs and List/Enumerate	290	18.4%	59	1.0%
06	3-9 HUs and List/Enumerate	16	1.0%	76	1.3%
07	0-9 HUs and AIR	128	8.1%	43	0.7%
08	0-2 HUs and AIC	121	7.7%	40	0.6%
09	3-9 HUs and AIC	7	0.4%	30	0.5%
TOTAL³		1,574		5,827	

1) For a more complete description of the strata see Table 1 in Attachment A.

2) The independent listing (IL) housing unit count is for 'keyed and valid' units and includes units designated 'future new construction'.

3) This table included clusters in the 50 states, the District of Columbia, and Puerto Rico.

Table 6. State Sampling Rates by Stratum

FIPS Code	State	Stratum 01	Stratum 02	Stratum 03	Stratum 04-09 ¹
01	Alabama	10.000000 ²	4.000000	.	1.000000
02	Alaska	7.000000	2.000000	.	1.000000
04	Arizona	2.700000	.	1.000000	1.000000
05	Arkansas	8.300000	3.000000	1.000000	.
06	California	2.568966	1.000000	1.000000	1.000000
08	Colorado	3.950000	1.000000	1.000000	1.000000
09	Connecticut	8.500000	.	1.000000	1.000000
10	Delaware	9.000000	2.000000	.	.
11	District of Columbia	10.000000	.	.	.
12	Florida	4.571429	1.500000	1.000000	1.000000
13	Georgia	9.357143	3.666667	2.000000	1.000000
15	Hawaii	3.800000	.	1.000000	.
16	Idaho	2.047619	.	.	1.000000
17	Illinois	9.500000	3.500000	2.000000	1.000000
18	Indiana	10.000000	3.333333	1.500000	1.000000
19	Iowa	10.000000	3.666667	2.000000	1.000000
20	Kansas	9.722222	3.400000	.	1.000000
21	Kentucky	9.111111	3.666667	2.000000	1.000000
22	Louisiana	3.500000	1.000000	.	1.000000
23	Maine	5.333333	2.000000	.	1.000000
24	Maryland	8.250000	2.000000	.	1.000000
25	Massachusetts	7.500000	3.000000	.	1.000000
26	Michigan	9.166667	3.500000	1.000000	1.000000
27	Minnesota	9.916667	4.000000	1.750000	1.000000
28	Mississippi	6.300000	2.500000	1.500000	1.000000
29	Missouri	9.466667	3.750000	1.000000	1.000000
30	Montana	2.529412	1.000000	.	1.000000
31	Nebraska	9.833333	3.500000	1.000000	1.000000
32	Nevada	1.888889	.	.	1.000000
33	New Hampshire	7.500000	2.000000	.	1.000000
34	New Jersey	5.285714	2.000000	.	.
35	New Mexico	2.142857	1.000000	.	1.000000
36	New York	9.166667	3.250000	2.000000	1.000000
37	North Carolina	9.583333	3.500000	2.000000	1.000000
38	North Dakota	7.750000	2.500000	.	1.000000
39	Ohio	9.250000	4.000000	1.666667	1.000000
40	Oklahoma	8.200000	3.000000	.	1.000000
41	Oregon	2.062500	1.000000	1.000000	1.000000
42	Pennsylvania	9.750000	4.000000	2.000000	1.000000
44	Rhode Island	9.000000	1.000000	1.000000	.
45	South Carolina	9.222222	3.500000	2.000000	1.000000
46	South Dakota	8.000000	2.500000	.	1.000000
47	Tennessee	9.500000	3.000000	1.500000	1.000000
48	Texas	3.188889	1.200000	1.000000	1.000000
49	Utah	2.125000	.	.	1.000000
50	Vermont	6.000000	2.000000	1.000000	1.000000
51	Virginia	8.900000	2.500000	2.000000	1.000000
53	Washington	2.904762	1.000000	.	1.000000
54	West Virginia	6.500000	2.500000	1.000000	.
55	Wisconsin	9.800000	3.000000	2.000000	1.000000
56	Wyoming	1.916667	.	.	1.000000
72	Puerto Rico	3.269231	1.250000	1.000000	1.000000

1) Strata 04-09 are presented together because they always have the same sampling rate.

2) For example, a value of 10.000000 implies a 1-in-10 sampling rate.

3) A '.' indicates that there were no clusters in the specified stratum.

Table 7. Sampling Weights for Small Block Clusters

FIPS Code	State	Stratum 01	Stratum 02	Stratum 03	Stratum 04-09 ¹
01	Alabama	1122.93 ²	449.17	.	112.29
02	Alaska	702.80	200.80	.	100.40
04	Arizona	1156.48	.	428.33	428.33
05	Arkansas	1110.54	401.40	133.80	.
06	California	1199.48	466.91	466.91	466.91
08	Colorado	1152.59	291.80	291.80	291.80
09	Connecticut	1171.73	.	137.85	137.85
10	Delaware	342.00	76.00	.	.
11	Dist. of Columbia	254.00	.	.	.
12	Florida	1177.06	386.22	257.48	257.48
13	Georgia	1021.63	400.33	218.36	109.18
15	Hawaii	1163.37	.	306.15	.
16	Idaho	1174.69	.	.	573.69
17	Illinois	836.31	308.11	176.06	88.03
18	Indiana	611.43	203.81	91.71	61.14
19	Iowa	474.97	174.15	94.99	47.50
20	Kansas	1102.19	385.45	.	113.37
21	Kentucky	1002.51	403.45	220.06	110.03
22	Louisiana	1170.94	334.55	.	334.55
23	Maine	1024.84	384.32	.	192.16
24	Maryland	1044.54	253.22	.	126.61
25	Massachusetts	1062.83	425.13	.	141.71
26	Michigan	1192.49	455.32	130.09	130.09
27	Minnesota	935.47	377.33	165.08	94.33
28	Mississippi	1112.14	441.33	264.80	176.53
29	Missouri	828.45	328.17	87.51	87.51
30	Montana	1131.89	447.49	.	447.49
31	Nebraska	921.98	328.16	93.76	93.76
32	Nevada	1194.27	.	.	632.26
33	New Hampshire	746.40	199.04	.	99.52
34	New Jersey	1150.66	435.38	.	.
35	New Mexico	1190.83	555.72	.	555.72
36	New York	1106.79	392.41	241.48	120.74
37	North Carolina	1149.06	419.66	239.80	119.90
38	North Dakota	1148.22	370.39	.	148.16
39	Ohio	819.82	354.52	147.71	88.63
40	Oklahoma	1014.26	371.07	.	123.69
41	Oregon	1171.69	568.09	568.09	568.09
42	Pennsylvania	998.78	409.76	204.88	102.44
44	Rhode Island	364.95	40.55	40.55	.
45	South Carolina	1068.42	405.48	231.71	115.85
46	South Dakota	1112.00	347.50	.	139.00
47	Tennessee	1115.57	352.29	176.14	117.43
48	Texas	1196.52	450.26	375.21	375.21
49	Utah	1173.84	.	.	552.39
50	Vermont	552.57	184.19	92.10	92.10
51	Virginia	1182.79	332.24	265.80	132.90
53	Washington	1162.66	400.26	.	400.26
54	West Virginia	1106.13	425.43	170.17	.
55	Wisconsin	850.62	260.39	173.60	86.80
56	Wyoming	1182.96	.	.	617.19
72	Puerto Rico	197.55	75.53	60.43	60.43

1) Strata 04-09 are presented together because they always have the same sampling weight.

2) The sampling weights are the inverse of the probability of selection for a cluster after small block cluster subsampling.

3) A '.' indicates that there were no clusters in the specified stratum.

Table 8. Distribution of Clusters by Type of Enumeration Area Group

Type of Enumeration Area ¹	SMALLS ONLY		ALL CLUSTERS	
	Clusters	IL HUs ²	Clusters	IL HUs
Block Canvassing	398	3,845	7,799	698,809
Address Listing	829	1,638	3,084	139,615
List/Enumerate	311	189	420	5,918
	=====	=====	=====	=====
Total for United States	1,538	5,672	11,303	844,342
Puerto Rico ³	36	155	499	56,047
	=====	=====	=====	=====
Grand Total	1,574	5,827	11,802	900,389

1) These are major types of enumeration area (TEAs) and are collapsed over the detailed TEAs based on the methodology used to compile the census address list. Block canvassing includes TEA 1 (Mailout/Mailback), TEA 6 (Military), TEA 7 (Urban Update/Leave), and TEA 8 (Rural Update/Enumerate). Address listing includes TEA 2 (Update/Leave), TEA 5 (Rural Update/Enumerate), and TEA 9 (Mailout/Mailback to Update/Leave Conversion). List/Enumerate includes TEA 3 (List/Enumerate).

2) The independent listing (IL) housing unit count is for 'keyed and valid' units and includes units designated 'future new construction'.

3) Puerto Rico was entirely address listed. The Address Listing counts do not include Puerto Rico.

Table 9. Distribution of Clusters by A.C.E. Regional Office

ACERO	ACERO Name	SMALLS ONLY		ALL CLUSTERS	
		Clusters	IL HUs ¹	Clusters	IL HUs
21	Boston (inc PR)	128	489	1,411	112,195
22	New York	9	504	498	68,189
23	Philadelphia	44	232	827	62,402
24	Detroit	51	234	801	56,041
25	Chicago	73	340	825	49,988
26	Kansas City	214	654	970	51,576
27	Seattle	157	286	946	68,710
28	Charlotte	96	948	1,041	88,469
29	Atlanta	84	530	970	99,932
30	Dallas	209	805	1,116	76,777
31	Denver	443	411	1,543	78,179
32	Los Angeles	66	394	854	87,931
		=====	=====	=====	=====
		1,574	5,827	11,802	900,389

1) The independent listing (IL) housing unit count is for 'keyed and valid' units and includes units designated 'future new construction'.